

PUBLICATION NUMBER : 05035191
PUBLICATION DATE : 12-02-93

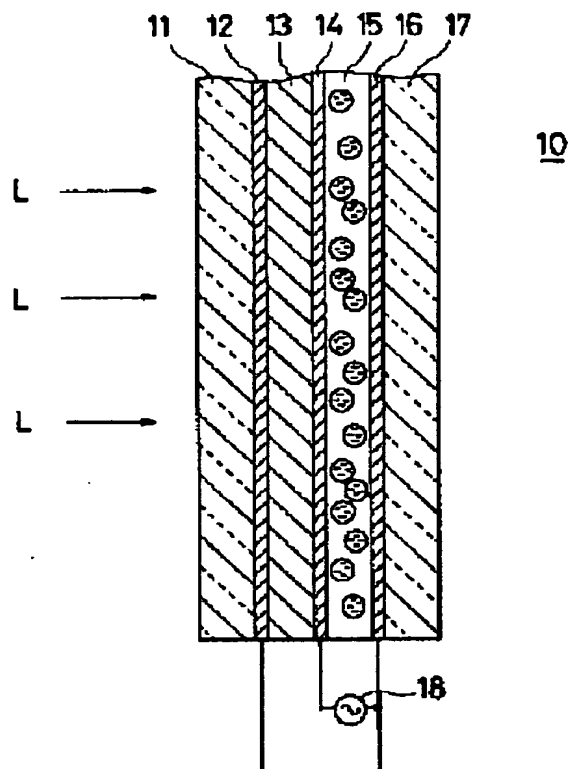
APPLICATION DATE : 25-07-91
APPLICATION NUMBER : 03207187

APPLICANT : SONY CORP;

INVENTOR : SUNAGA KATSUTOSHI;

INT.CL. : G09F 19/18

TITLE : SCREEN



ABSTRACT : PURPOSE: To provide the screen which generates a screen effect only in the parts made incident with light and maintains the other parts in a transparent state by disposing a photoconductive layer between a pair of transparent electrodes, thereby constituting the screen.

CONSTITUTION: A liquid crystal 15 and the photoconductive layer 13 formed of a photoconductive material are disposed between a pair of the transparent electrodes 12 and 16 in the state of interposing the transparent electrode 14 therebetween. The photoconductive layer 13 consisting of amorphous silicon has the lower electric resistance in the part made incident with the light and, therefore, the potential difference between the transparent electrode 12 and the transparent electrode 14 of this part decreases. Since the transparent electrode 12 and the transparent electrode 16 are at the same potential, the potential between the transparent electrode 14 and the transparent electrode 16 decreases as well. Then, the liquid crystal arrangement of the liquid crystal layer 15 in this part is disturbed and a translucent state is attained. This part functions as the screen. Consequently, video projecting light L is projected as a video in the liquid crystal layer 15 and this video is visible from the glass of the glass substrate 17.

COPYRIGHT: (C)1993,JPO&Japio